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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

International Patent Application of

ESCAICH, Sonai

Atty. Ref.: 1721-82

Serial No. 10/520,820

Group: Unknown

Filed: January 7, 2005

Examiner: Unknown

For: PATHOGENICITY DETERMINANTS WHICH CAN BE USED AS TARGETS FOR
DEVELOPING MEANS FOR PREVENTING AND CONTROLLING BACTERIAL
INFECTIONS AND/OR SYSTEMIC DISSEMINATION

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May 23, 2005

Commissioner for Patents
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Alexandria, VA 22313-1450

Sir:

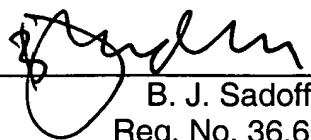
SUBMISSION

Submitted herewith is a copy of the references listed on the PTO-1449 Form and in the International Search Report, copies of which were filed with the application on January 7, 2005. Return of an initialed copy of the PTO-1449 Form filed January 7, 2005 (copy attached), pursuant to MPEP Section 609, is requested.

Respectfully submitted,

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By: _____



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January 7, 2005

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(Use several sheets if necessary)

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

	YETHON, et al., "Involvement of waaY, waaQ and waaP in the modification of E.coli lipopolysaccharide and their role in the formation of a stable outer membrane". Journal of Biological Chemistry, American Society of Biological Chemists, Baltimore, MD, US, Vol. 273, no. 41, 9 October 1998, Pgs. 26310-26316
	HEINRICHS, et al., "Molecular basis for structural diversity in the core regions of the lipopolysaccharides of Escherichia coli and Salmonella enterica", Molecular Microbiology, Vol. 30, No. 2, October 1998, Pgs. 221-232
	BURNS et al., "Comparison of loss of serum resistance by defined lipopolysaccharide mutants and an acapsular mutant of uropathogenic Escherichia coli 075:K5". Infection and Immunity, Vol. 66, No. 9, 1998, Pgs. 4244-4253
	RUSSO et al., "Loss of the antigen moiety from the lipopolysaccharide of an extraintestinal isolate of Escherichia coli has only minor effects on serum sensitivity and virulence in vivo", Infection and Immunity, Vol 63, No. 4, 1995, Pgs. 1263-1269
	HONG et al., "Effect of mutations in Shigella flexneri chromosomal and plasmid-encoded lipopolysaccharide genes on invasion and serum resistance", Molecular Microbiology, vol. 24, no. 4, 1997, pgs. 779-791
	MERINO et al., "Cloning and sequencing of the Klebsiella pneumoniae 05 wb gene cluster and its role in pathogenesis. Infection and Immunity, vol. 68, no. 5, May 2000, pgs. 2435-2440
	RAUTEMAA et al., "Complement-resistance mechanisms of bacteria", Microbes and Infection, vol. 1, no. 10, August 1999, pgs. 785-794
	SHEA et al., "Signature-tagged mutagenesis in the identification of virulence genes in pathogens", Current Opinion in Microbiology, vol. 3, no. 5, October 2000, pgs. 451-458
	Database Uniprot, 1 May 1999, "WaaC" ; Accession No. Q9ZIT1
	Database Uniprot, 1 May 2000, "WaaQ" ; Accession No. Q9R9D5
	Database Uniprot, 1 May 2000, "WaaP" ; Accession No. Q9R9D6
	Database Uniprot, 1 May 2000, "WaaG" ; Accession No. Q9R2L8
	Database Uniprot, 1 October 1994, "RFAF" ; Accession No. P37692
	Database Uniprot, 1 May 1999, "WaaQ" ; Accession No. Q9ZIS5
	Database Uniprot, 1 May 1992, "GalU" ; Accession No. P25520
	Database Uniprot, 1 June 1994, "PGMU" ; Accession No. P36938
	Database Uniprot, 1 February 1995, "KpsD" ; Accession No. Q03961
	Database Uniprot, 1 November 1996, "Neud" ; Accession No. Q46674
	Database Uniprot, 1 July 1993, "GmnB" ; Accession No. P31546
	Database Uniprot, 1 November 1990, "RFAF" ; Accession No. P17963
	Database Uniprot, 15 July 1999, "rfiE" ; Accession No. P76658
	Database Uniprot, 1 March 2002, "DltD" ; Accession No. Q8VM64
	Database Geneseq, 2 July 2002, "DLTA" ; Accession No. ABP30484
	KNEIDINGER et al., "Biosynthesis pathway of ADP-L-glycero-beta-D-manno-heptose in Escherichia coli", Journal of Bacteriology, vol. 184, no. 2, January 2002, pgs. 363-369
	KNEIDINGER et al., "Biosynthesis of nucleotide-activated D-glycero-D-manno-heptose" Journal of Biological Chemistry, Vol. 276, No. 24, 15 June 2001, Pgs. 20935-20944
	SISTI et al., "In vitro and in vivo characterization of a Bordetella bronchiseptica mutant strain with a deep rough lipopolysaccharide structure", Infection and Immunity, Vol. 70, No. 4, April 2002, Pgs. 1791-1798
	YETHON et al., "Purification and characterization of WaaP from Escherichia coli, a lipopolysaccharide kinase essential for outer membrane stability", Journal of Biological Chemistry, Vol. 275, No. 8, 23 February 2001, pgs. 5498-5504
	YETHON et al., "Salmonella enterica serovar typhimurium waaP mutants show increased susceptibility to polymyxin and loss of virulence in vivo", Infection and Immunity, Vol. 68, No. 8, August 2000, Pgs. 4485-4491
	GENEVAUX et al., "Identification of Tn10 insertions in the rfaG, rfaP, and galU genes involved in lipopolysaccharide core biosynthesis that affect Escherichia coli adhesion", Archives of Microbiology, Vol. 172, No. 1, July 1999, Pgs. 1-8

*Examiner

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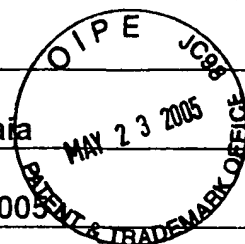
ESCAICH, Sonali

Filing Date

January 7, 2005

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	NGELEKA et al. "Characterization of a polysaccharide capsular antigen of septicemic Escherichia coli 0115: K "V165": F165 and evaluation of its role in pathogenicity. Infection and Immunity. Vol 60, No. 12, 1992, Pgs. 5048-5056
	DAINES et al. "NeuD plays a role in the synthesis of sialic acid in Escherichia coli K1" Fems Microbiology Letters, Vol. 189, No. 2, 15 August 2000, Pgs. 281-284
	YETHON et al. "Mutation of the lipopolysaccharide core glycosyltransferase encoded by waaG destabilizes the outer membrane of Escherichia coli by interfering with core phosphorylation", Journal of Bacteriology, Vol. 182, No. 19, October 2000, Pgs. 5620-5623
	NESPER et al. "Characterization of Vibrio Cholerae 01 E1 Tor galU and galE mutants: Influence on lipopolysaccharide structure, colonization, and biofilm formation". Infection and Immunity, Vol. 69, No. 1, January 2001, Pgs. 435-445
	ABACHIN et al. "Formation of D-alanyl-lipoteichoic acid is required for adhesion and virulence of Listeria monocytogenes", Molecular Microbiology, Vol. 43, No. 1, January 2002, Pgs. 1-14
	MARTINDALE et al. "Genetic analysis of E. Coli K1 gastrointestinal colonization", Molecular Microbiology, Vol. 37, No. 6, September 2000, Pgs. 1293-1305
	CHANG HWAN-YOU et al. "Virulence and outer membrane properties of a galU mutant of Klebsiella pneumoniae CG43", Microbial Pathogenesis, Vol. 20, No. 5, 1996, Pgs. 255-261
	REGNI et al. "Crystal structure of PMM/PGM: An enzyme in the biosynthetic pathway of P. aeruginosa virulence factors". Structure, vol. 10, no. 2, February 2002, pgs. 269-279
	TANG et al. "Pathogen virulence genes - implication for vaccines and drug therapy", British Medical Bulletin, Churchill Livingstone, London, GB, Vol. 55, No. 2, 1999, pgs. 387-400
	MOXON et al. "Challenge of investigating biologically relevant functions of virulence factors in bacterial pathogens", Philosophical Transactions, Royal Society of London, Biological Sciences, Royal Society, London, GB, Vol. 355, No. 1397, 25 May 2000, pgs. 643-656
	VALVANO et al. "The rfaE gene from Escherichia coli encodes a bifunctional protein involved in biosynthesis of the lipopolysaccharide core precursor ADP-L-glycero-D-manno-heptose", Journal of Bacteriology, Washington, DC, US, Vol. 182, No. 2, January 2000, Pgs. 488-497
	LEE et al. "Molecular cloning and characterization of the nontypable Haemophilus influenzae-2019 rfaE gene required for lipopolysaccharide biosynthesis", Infection and Immunity, American Society for Microbiology, Washington, US, vol. 63, no. 3, 1995, pgs. 818-824
	CIESLEWICZ et al. "Thermoregulation of KPSF, the first region 1 gene in the KPS locus for polysialic acid biosynthesis in Escherichia coli K1", Journal of Bacteriology, Washington, DC, US, vol. 178, no. 11, June 1996, Pgs. 3212-3220
	BOYD et al. "Chromosomal regions specific to pathogenic isolates of clustered distribution", Journal of Bacteriology, Washington, DC, US, Vol. 180, No. 5, March 1998, Pgs. 1159-1165
	AUSTIN et al. "Genetic analysis of lipopolysaccharide core biosynthesis by Escherichia coli k12 insertion mutagenesis of the RFA locus", Journal of Bacteriology, Washington, DC, US, Vol. 172, No. 9, September 1990, Pgs. 5312-5325
	STOJILJKOVIC et al. "Cloning and characterization of the Neisseria Meningitidis RFAC gene encoding Alpha-1, 5 Heptosyltransferase I". Fems Microbiology Letter, Amsterdam, NL, Vol. 151, No. 1, 1997, Pgs. 41-4999
	International Search Report dated Aug 26, 2004 in PCT/EP03/08209

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Date Considered

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